



Wi-Fi Easy Connect™

Specification

Version 2.0

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8 DPP Attribute, frame, and Element Formats

DPP messages are exchanged using 802.11 Public Action frames, with the exception of DPP Configuration Request/Response frames, which include a similar header format, but are exchanged using vendor specific Generic Advertisement Service (GAS) Public Action frames. The information element (IE) usage and convention for DPP Configuration Request/Response frames is the same as all other DPP frames.

In addition to DPP Protocol framing, the specification introduces the Network Introduction protocol, where Peers use a Connector to establish a security association. The Network Introduction protocol elements are given in section 8.3.4.

8.1 DPP Attributes

The DPP attributes are defined to have a common general format consisting of a 2 octet DPP Attribute ID field, a 2-octet Length field and variable-length attribute-specific information fields, as shown in Table 24. Both fields are encoded in little endian byte order.

Table 24. General Format of DPP Attribute

Field	Size (octets)	Value (Hexadecimal)	Description
Attribute ID	2	variable	Identifying the type of DPP attribute. The specific values are defined in Table 25 .
Length	2	variable	Length of the following fields in the attribute.
Attribute Body Field	variable		Attribute-specific information fields.

Table 25. Attribute ID Assignments

Attribute ID (Hexadecimal)	Notes
0000 – 0FFF	Reserved
1000	DPP Status
1001	Initiator Bootstrapping Key Hash
1002	Responder Bootstrapping Key Hash
1003	Initiator Protocol Key
1004	Wrapped Data
1005	Initiator Nonce
1006	Initiator Capabilities
1007	Responder Nonce
1008	Responder Capabilities
1009	Responder Protocol Key
100A	Initiator Authenticating Tag
100B	Responder Authenticating Tag
100C	DPP Configuration Object, see section 4.5
100D	DPP Connector, see Figure 14 for an example